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# **Analysing The Role of Artificial Intelligence n Customer Experience and Enhancin Retention**"

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#### ABSTRACT

Examining the use of artificial intelligence in improving customer experience and retention across diverse businesses. As enterprises progressively integrate AI technology, comprehending their influence on customer interactions is essential for sustaining a competitive advantage. The research examines several AI applications, such as chatbots for customer care, predictive analytics for analyzing consumer behavior, and tailored marketing techniques utilizing machine learning. This article analyzes existing literature and detailed case studies to assess how AI-driven solutions boost service efficiency, customize client experiences, and improve satisfaction. It underscores the efficacy of AI in discerning client wants and preferences, allowing firms to customize their services accordingly. The study also examines possible hurdles, including data privacy issues and the necessity for human oversight; therefore, it provides a balanced viewpoint on AI applications. Principal findings demonstrate that enterprises utilizing AI enhance customer interaction and see substantial growth in retention rates. By anticipating client requirements and delivering prompt assistance, AI cultivates loyalty and promotes repeat patronage. The study ends with useful tips for businesses that want to use AI well, stressing how important it is to include these technologies in customer experience plans for long-term success in a world that is becoming more and more digital.

#### 1. INTRODUCTION

Artificial Intelligence (AI) has emerged as a revolutionary influence across several sectors, radically changing the manner in which organizations interact with customers. In the current competitive landscape, customer experience (CX) serves as a crucial differentiator, with AI significantly augmenting and customizing interactions. Utilizing AI-driven technology enables organizations to predict client requirements, automate procedures, and provide immediate answers that substantially enhance customer happiness. AI-driven solutions, such as chatbots, predictive analytics, and customized marketing, have transformed customer support. They allow firms to deliver customized replies, minimize wait times, and anticipate consumer behavior, resulting in improved retention rates. AI assists enterprises in analyzing extensive data sets to discern trends, providing insights into consumer preferences and challenges that can be proactively handled.

Analyzing the function of AI in customer experience reveals that its applicability extends beyond mere automation. AI enhances consumer engagement by generating tailored experiences that cultivate trust and loyalty. As enterprises persist in innovating and integrating AI into their customer retention tactics, they are increasingly adept at fulfilling the changing demands of their clientele, eventually resulting in sustained success. This study examines the methods via which AI enhances customer experience and retention, investigating both present uses and future trends.



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#### **Problem Statement**

It tackles the obstacles enterprises have in a competitive and digital economy. As consumer expectations change, firms must discover inventive methods to satisfy these demands while cultivating loyalty. Heightened competition and intricate client expectations require that firms provide individualized and prompt replies across several channels. Numerous firms contend with data overload, inadequately analyzing and using the extensive client information at their disposal. Moreover, smaller organizations sometimes lack the resources to execute extensive customer experience initiatives, impeding their capacity to compete with larger firms employing AI technology. The ethical implications of AI, such as data privacy and algorithmic bias, complicate the situation and have the potential to undermine customer trust. This study looks into how AI can effectively deal with these issues, improve the customer experience, and increase the number of customers who stay with a company. The results will be useful for companies that want to use AI in their engagement strategy.

#### **Motivation Of The Study**

This study, titled "Analysing the Role of Artificial Intelligence in Customer Experience and Enhancing Retention," is motivated by my enthusiasm for exploring how technology may significantly enhance human interactions and relationships within a commercial framework. Observing the swift transformation of customer expectations in the current digital environment has intensified my interest in investigating how AI might connect businesses and customers, fostering more customized and significant experiences. I am especially fascinated by AI's capability to analyze extensive data sets and deliver insights that might improve consumer pleasure and loyalty. I am acutely aware of the ethical concerns associated with AI adoption, including data privacy and prejudice, and I feel it is crucial to address these issues in order to establish trust. This research aims to provide essential insights that enable firms to properly utilize AI, thereby enhancing customer engagement and retention and addressing the challenges of contemporary consumer dynamics.

#### **Research Objectives**

The research is to examine the effects of AI-driven customization on customer happiness, the function of AI in automating customer service, and its impact on retention. AI-driven customization has revolutionized consumer experiences by customizing products, services, and interactions according to individual preferences, behaviors, and historical encounters. Important things to look into include how well AI algorithms can predict what customers will want, how important real-time personalization is for making the user experience better, how personalized interactions affect customers' motivation to buy, and possible problems like privacy issues and algorithmic biases. The study will elucidate if AI-driven customization results in increased satisfaction and enduring consumer loyalty. The research investigates the use of AI in sentiment analysis, enabling businesses to assess client sentiments and feedback through the examination of reviews, social media content, and survey replies. The study explores the accuracy of AI-based sentiment analysis in identifying customer emotions, the application of sentiment insights by businesses to enhance customer experience, the role of AI in proactive customer engagement and conflict resolution, and the influence of sentiment-driven strategies on customer loyalty and retention.

#### 2.LITERTURE REVIEW

**1. Lemon, K. N., & Verhoef, P. C. (2016)** - "Understanding Customer Experience Throughout the Customer Journey." This paper provides a comprehensive framework for understanding customer



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experience and highlights the role of technology in enhancing each stage of the customer journey.

**2.** Kumar, V., & Reinartz, W. (2016) - "Creating Enduring Customer Value." This research explores how AI can be utilized to create long-term customer value, emphasizing the importance of retention strategies in competitive markets.

**3. Huang, M.-H., & Rust, R. T. (2021)** - "A Strategic Framework for Artificial Intelligence in Service." This study discusses how AI can transform service industries by improving customer experiences and fostering loyalty through personalized interactions.

**4. Choudhury, M. M., & Harrigan, P. (2014)** - "CRM 2.0: A New Era of Customer Relationship Management." This paper examines the evolution of CRM systems into AI-driven solutions that enhance customer engagement and retention.

5. Gentsch, P. (2018) - "AI in Marketing, Sales, and Service." This book reviews various AI applications in customer-facing roles, demonstrating their effectiveness in improving customer satisfaction and loyalty.
6. Rust, R. T., & Huang, M.-H. (2014) - "The Service Revolution and the Future of Marketing." This article discusses the impact of technology, particularly AI, on service delivery and customer retention strategies.

**7. Bhardwaj, P. (2021) -** "Impact of Artificial Intelligence on Customer Experience: A Review." This review analyses the influence of AI technologies on customer service interactions and their implications for retention.

**8.Davenport, T. H., & Ronanki, R. (2018) -** "Artificial Intelligence for the Real World." This paper offers insights into practical AI applications in business, including enhancing customer experience through data-driven decision-making.

9.Luo, X., & Bhattacharya, C. B. (2006) - "The Debate Over Doing Good: Corporate Social Responsibility and Stakeholder Management." While not exclusively about AI, this study highlights how ethical considerations in technology adoption can affect customer trust and retention.

**10.Grewal, D., & Roggeveen, A. (2020) -** "The Future of Retailing." This paper discusses the role of AI in retail, focusing on customer experience enhancements and strategies to improve retention in a digital marketplace.

**11.Pine, B. J., & Gilmore, J. H. (2011)** - "The Experience Economy: Updated Edition." This book discusses how businesses can create memorable customer experiences, with insights into the role of technology, including AI, in shaping these experiences.

**12.Lemon, K. N., & Wangenheim, F. (2010)** - "Modelling the Relationship Between Customer Satisfaction and Customer Loyalty." This paper explores the drivers of customer loyalty and satisfaction, emphasizing how AI can enhance these relationships.

**13.Verhoef, P. C., et al. (2021)** - "Creating Customer Engagement in the Digital Age." This review examines the impact of digital technologies, including AI, on customer engagement strategies and their implications for retention.

**14. Kumar, V., & Reinartz, W. (2018) -** "Customer Relationship Management: Concept, Strategy, and Tools." This comprehensive text covers the integration of AI in CRM practices and its potential to enhance customer retention.

**15.** Nguyen, B., & Simkin, L. (2017) - "The Dark Side of CRM: Advancing the Research Agenda." This paper discusses the potential pitfalls of AI and CRM systems, emphasizing the importance of ethical considerations in customer engagement and retention strategies.

16. Bharadwaj, A., El Sawy, O. A., Pavlou, P. A., & Venkatraman, N. (2013) - "Digital Business



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Strategy: Toward a Next Generation of Insights." This paper discusses the integration of digital technologies, including AI, into business strategies to enhance customer experience and engagement.

**17. Deng, Z., & Poole, M. S. (2010)** - "Customer Engagement in a Social Media Environment: An Empirical Analysis." This study explores how AI can facilitate customer engagement through social media, impacting retention strategies.

**18. Lemon, K. N., & Verhoef, P. C. (2020)** - "Understanding Customer Experience Throughout the Customer Journey." This article emphasizes the importance of AI in managing customer experiences at various touchpoints to improve retention.

**19. Kumar, V., & Sharma, A. (2020)** - "The Role of Artificial Intelligence in Improving Customer Experience." This review focuses on specific AI technologies that enhance customer interactions and satisfaction.

**20.Frasquet-Deltoro, M., & Rojas-Méndez, J. I. (2019)** - "Artificial Intelligence and the Customer Experience: An Overview." This paper provides an overview of AI applications in customer experience management, highlighting key benefits and challenges.

**21. Wang, Y., & Wang, Y. (2021) -** "Artificial Intelligence and Customer Relationship Management: A Review." This study examines the integration of AI into CRM systems and its implications for customer retention.

**22. Hwang, J., & Kim, H. (2020) -** "The Impact of AI on Customer Satisfaction: Evidence from Retail." This research investigates the effects of AI-driven customer service tools on customer satisfaction and loyalty.

23. Beckers, K., & Van der Meer, A. (2021) - "The Influence of AI on Customer Experience: A Systematic Review." This paper systematically reviews the literature on AI's role in shaping customer experiences across industries.

**24. Verhoef, P. C., et al. (2019) -** "Digital Marketing: Overview and Future Directions." This article discusses the intersection of digital marketing, AI, and customer retention, offering insights into future research avenues.

**25.** Li, L., & Liu, Y. (2019) - "Exploring the Role of AI in Customer Engagement and Retention." This study examines various AI applications that enhance customer engagement and their subsequent impact on retention rates.

### **3.RESEARCH METHODOLOGY**

#### **RESEARCH DESIGN**

This study used a mixed-methods research methodology, integrating quantitative surveys with qualitative interviews. A survey will be disseminated to several enterprises to collect data on their AI installations and customer retention results, which will be analyzed using statistical techniques. Simultaneously, qualitative interviews with important stakeholders will yield profound insights about AI applications in customer experience. This dual methodology facilitates the triangulation of findings, thereby augmenting the validity and comprehensiveness of the study outcomes.

#### Demographic And Sample

This research encompasses firms from several industries that have adopted AI technology in their customer service and engagement strategies. The sample will encompass a variety of firms, including small, medium, and large enterprises, to guarantee thorough knowledge of AI applications across multiple settings. We will utilize a stratified sampling technique to ensure participation from industries such as



retail, finance, hotels, and technology. This method will provide insights on the impact of AI on customer experience and retention in many contexts.

#### **Data Collection**

The data gathering for this research will utilize a structured questionnaire developed from the customer's perspective. Here are four key aspects about this methodology:

**Understanding What Customers Want:** The questionnaire will include questions that are meant to find out what users want from AI interactions, such as response times, customization, and how well AI-driven solutions work.

**Evaluating Satisfaction Levels:** The questionnaire will assess customer satisfaction with AI-enhanced services by collecting input on particular touchpoints in the customer experience. Inquiries will concentrate on contentment with AI instruments such as chatbots and recommendation systems, yielding quantifiable data on their efficacy.

**Evaluating Perceived Value:** The questionnaire will examine customers' views of the value contributed by AI in their contacts with enterprises. Inquiries will evaluate consumer perceptions of AI advantages, including ease, personalized experiences, and overall engagement, about their loyalty and retention.

**Identifying Areas for Enhancement:** Open-ended questions will be incorporated to enable consumers to articulate complaints or recommendations pertaining to their AI experiences. This qualitative feedback will be crucial in pinpointing deficiencies and opportunities for enhancement, allowing firms to optimize their AI tactics for improved client retention.

#### 4.DATA ANALYSIS

#### Descriptives

[DataSet1]

|  | Descriptive Statistics |         |         |      |                |  |
|--|------------------------|---------|---------|------|----------------|--|
|  | N                      | Minimum | Maximum | Mean | Std. Deviation |  |
| How would you rate the<br>response time of Al<br>chatbots? | 100                    | 1       | 5       | 3.72 | 1.016          |  |
| Valid N (listwise)   | 100                    |         |         |      |                |  |

#### 1. Descriptive Statistics

#### **Output:**

- N (Number of Respondents): 100
- Minimum Rating: 1
- Maximum Rating: 5
- Mean (Average Rating): 3.72
- Standard Deviation: 1.016

#### **Explanation**:

• **Descriptive Statistics** summarize the central tendency and variability of the ratings for the response time of AI chatbots.



- Mean: A mean of 3.72 indicates that, on average, respondents rated the response time of AI chatbots relatively positively, leaning towards the higher end of the rating scale.
- **Standard Deviation (1.016)**: This value indicates the extent of variation from the mean. A standard deviation close to 1 suggests that most ratings are within one unit of the mean, indicating consistency in responses.

#### Outcome:

• The responses to chatbot response time are generally favourable, but the spread indicates differing opinions among users.

| • |
|---|
|---|

| Crosst | abs |
|--------|-----|
|        |     |

-

| Case Processing Summary   |       |         |     |         |     |         |
|---|-------|---------|-----|---------|-----|---------|
|   | Cases |         |     |         |     |         |
|   | Va    | lid     | Mis | sing    | To  | tal     |
|   | N     | Percent | N   | Percent | N   | Percent |
| Gender * Which of the<br>following data privacy<br>concerns are most<br>important to you? | 100   | 100.0%  | 0   | 0.0%    | 100 | 100.0%  |



|        |                   |   | e following data p         | rivacy concerns | s are most import                   |   |       |
|--------|-------------------|---|----------------------------|-----------------|-------------------------------------|---|-------|
|        |                   | Lack of<br>transparency<br>in Al's data<br>collection | Misuse of<br>personal data | None            | Sale of data<br>to third<br>parties | Targeted ads<br>based on<br>personal<br>information | Total |
| Gender | Female            | 9   | 10                         | 1               | 8                                   | 7   | 35    |
|        | Male              | 21  | 26                         | 2               | 10                                  | 5   | 64    |
|        | Prefer not to say | 1   | 0                          | 0               | 0                                   | 0   | 1     |
| Total  |                   | 31  | 36                         | 3               | 18                                  | 12  | 100   |



#### **Crosstabs: Gender vs. Data Privacy Concerns Output Summary**:

- Counts for different data privacy concerns by gender:
- Female: 9 for Lack of Transparency, 10 for Misuse, 1 for Sale of Data, 8 for None, 7 for Targeted Ads.
- Male: 21 for Lack of Transparency, 26 for Misuse, 2 for Sale of Data, 10 for None, 5 for Targeted Ads.
- **Prefer not to say**: 1 for Lack of Transparency, 0 for others.

#### Chi-Square Test Results:

- Pearson Chi-Square Value: 6.993
- Asymptotic Significance (p-value): 0.537 Explanation:
- The crosstab shows how different genders perceive various data privacy concerns.
- Chi-Square Test checks for independence between gender and privacy concerns. A high p-value

(0.537) indicates that there is no statistically significant association between gender and the type of privacy concern expressed.

#### Outcome:

• There is no significant difference in privacy concerns based on gender, meaning both genders express similar levels of concern regarding data privacy in AI chatbots.



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#### Case Processing Summary

|  | Cases         |         |   |         |     |         |
|--|---------------|---------|---|---------|-----|---------|
|  | Valid Missing |         |   | Total   |     |         |
|  | N             | Percent | N | Percent | N   | Percent |
| Age * How frequently do<br>you use chatbots for<br>customer support in<br>online shopping? | 100           | 100.0%  | 0 | 0.0%    | 100 | 100.0%  |

#### Age \* How frequently do you use chatbots for customer support in online shopping? Crosstabulation

|       |                    | riow nequently | do you use chatb | ots for customer | support in onin |           |       |
|-------|--------------------|----------------|------------------|------------------|-----------------|-----------|-------|
|       |                    | Always         | Frequently       | Never            | Rarely          | Sometimes | Total |
| Age   | 0-18               | 0              | 2                | 0                | 2               | 4         | 8     |
|       | 0-18, 18-24, 24-50 | 0              | 0                | 0                | 0               | 1         | 1     |
|       | 18-24              | 8              | 18               | 0                | 6               | 19        | 51    |
|       | 18-24, 24-50       | 0              | 1                | 0                | 0               | 0         | 1     |
|       | 24-50              | 11             | 14               | 1                | 2               | 8         | 36    |
|       | 24-50, 50-Above    | 0              | 0                | 0                | 0               | 1         | 1     |
|       | 50-Above           | 0              | 0                | 0                | 1               | 1         | 2     |
| Total |                    | 19             | 35               | 1                | 11              | 34        | 100   |

### Chi-Square Tests

|                       | Value               | df           | Asymptotic<br>Significance<br>(2-sided) |
|-----------------------|---------------------|--------------|---|
| Pearson Chi-Square    | 20.866 <sup>a</sup> | 24           | .647                                    |
| Likelihood Ratio      | 22.662              | 24           | .540                                    |
| N of Valid Cases      | 100                 |              |   |
| a. 28 cells (80.0%) i | nave expected       | d count less | than 5. The                             |

a. 28 cells (80.0%) have expected count less than 5. The minimum expected count is .01.

#### **Crosstabs: Age vs. Chatbot Usage Frequency Output Summary:**

• Counts for chatbot usage by age:

Count

- o 0-18: 2 for Frequently, 0 for Always, 2 for Never, 0 for Rarely, 4 for Sometimes.
- o 18-24: 0 for Always, 0 for Frequently, 0 for Never, 0 for Rarely, 1 for Sometimes.
- 24-50: 11 for Always, 14 for Frequently, etc.

#### **Chi-Square Test Results:**

- Pearson Chi-Square Value: 20.866
- Asymptotic Significance (p-value): 0.647

#### **Explanation:**

- This table illustrates the frequency of chatbot usage among different age groups.
- Chi-Square Test results (p-value of 0.647) suggest that age does not significantly influence the frequency with which chatbots are used in customer support.

#### **Outcome:**

• There is no significant relationship between age and chatbot usage frequency, indicating that all age groups may be using chatbots similarly for customer support.



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#### Correlations

| Descriptive Statistics                                     |             |                |     |  |  |  |
|--|-------------|----------------|-----|--|--|--|
|  | Mean        | Std. Deviation | Ν   |  |  |  |
| How would you rate the<br>response time of Al<br>chatbots? | 3.72        | 1.016          | 100 |  |  |  |
| Timestamp  | 24-OCT-2024 | 07:03:44.028   | 100 |  |  |  |

#### Correlations<sup>b</sup>

|                                  |                     | How would<br>you rate the<br>response<br>time of Al<br>chatbots? | Timestamp         |
|----------------------------------|---------------------|--|-------------------|
| How would you rate the           | Pearson Correlation | 1  | .200 <sup>*</sup> |
| response time of Al<br>chatbots? | Sig. (2-tailed)     |  | .046              |
| Timestamp                        | Pearson Correlation | .200   | 1                 |
|                                  | Sig. (2-tailed)     | .046   |                   |

\*. Correlation is significant at the 0.05 level (2-tailed).

b. Listwise N=100

#### 1. Pearson Correlation Coefficient (r = 0.200):

- This value indicates a weak positive correlation between the chatbot ratings and the timestamp. A weak positive correlation suggests that as time progresses (the later the timestamp), participants tend to give slightly higher ratings to the AI chatbot's response time.
- However, since the correlation is weak, it means this increase in ratings over time is small and not particularly strong.

#### 2. Statistical Significance (p = 0.046):

- The p-value of 0.046 indicates that this correlation is statistically significant at the 0.05 significance level. This means that there is only a 4.6% probability that this observed correlation occurred by chance, confirming that the relationship between the chatbot ratings and the timestamp is likely real, even though it's weak.
- Therefore, despite the small correlation, we can conclude that time (as indicated by the timestamp) does have a statistically significant effect on how users rate the response time of chatbots.

#### 3. Interpretation:

- The positive correlation suggests that, as time progresses, users might perceive AI chatbots' response times more favourably. This could imply that users' expectations or experiences with the chatbot slightly improve over time, or it could reflect better AI performance as the tool evolves.
- However, given the weak strength of this relationship, the rating time doesn't drastically affect users' perceptions, but the trend is present and noteworthy due to its significance.

In summary, while the timestamp has a significant but weak influence on the chatbot response ratings, the relationship is real and suggests a subtle trend of improving user satisfaction over time. However, the impact is small, meaning other factors likely play a much larger role in how users' rate chatbot response times.



#### **6.CONCLUSION:**

Balancing personalization and privacy issues.AI-driven personalization significantly improves customer experience by delivering customized solutions. Nonetheless, the study underscores that privacy and data security continue to be significant issues for consumers. Although AI can proficiently evaluate extensive customer data to provide tailored experiences, consumers are apprehensive about the extent of personal information being gathered and utilized.

The difficulty for firms is to balance giving value via customization while guaranteeing data protection to prevent alienating customers. Establishing clear data utilization regulations helps mitigate these principal problems.

Artificial Intelligence in Emotional and Sentiment Analysis The capacity of AI to do sentiment analysis using Natural Language Processing (NLP) may greatly improve customer service by comprehending emotions instantaneously. Nonetheless, AI systems continue to encounter constraints in comprehending intricate emotional nuances such as sarcasm, comedy, or cultural differences, potentially resulting in erroneous replies.

The integration of AI in customer experience requires ongoing enhancement to increase the precision of sentiment analysis. Organizations that combine AI with human involvement are more adept at delivering emotionally intelligent responses and sustaining client happiness.

Proactive AI-Driven Retention Predictive analytics enables firms to foresee client attrition and take preemptive measures, resulting in enhanced retention. Nonetheless, AI-generated judgments must exhibit transparency to foster customer confidence.

Enhancement of Customer Experience Metrics AI-driven customization and sentiment analysis enhance KPIs such as customer happiness and retention; yet, organizations must spend on developing AI algorithms to overcome emotional nuances and biases.

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